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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,865	10/16/2003	Walter Schubert	S159 1030.1	7435
	7590 07/15/201 RLYLE SANDRIDGE	EXAMINER		
P.O. Box 7037		BASS, DIRK R		
Atlanta, GA 30357-0037			ART UNIT	PAPER NUMBER
		1797		
		MAIL DATE	DELIVERY MODE	
		07/15/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applica	tion No.	Applicant(s)			
		10/686,	65 SCHUBERT, WALTER		LTER		
		Examin	er	Art Unit			
		DIRK BA	ASS	1797			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRICT IN THE MINISTRICT	AILING DATE OF 7 of 37 CFR 1.136(a). In no ounication. In tutory period will apply and will, by statute, cause the a	THIS COMMUNICATIC event, however, may a reply be t will expire SIX (6) MONTHS fror pplication to become ABANDON	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).	·		
Status							
2a)⊠	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practic	ድb)⊡ This action is for allowance excep	ot for formal matters, pr		e merits is		
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-21 is/are pending in the a 4a) Of the above claim(s) 11-20 is/ar Claim(s) is/are allowed. Claim(s) 1-10, 21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the	e withdrawn from o					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inforr	t (s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	TO-948)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

Application/Control Number: 10/686,865 Page 2

Art Unit: 1797

DETAILED ACTION

1. Applicants response filed April 29, 2010 is acknowledged. Claims 11-20 are withdrawn from consideration. Claims 1-10 and 21 are pending and further considered on the merits.

Response to Amendment

2. In response to applicant's amendment, the examiner maintains the grounds of rejection set forth in the office action dated November 2, 2009.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. **Claims 1-3, 5-7, 10, and 21** are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Blumenfield et al., US 6300124 (Blumenfield, IDS).

Regarding claims 1-3 and 21, Blumenfield discloses a method for preparing biological samples (see "histochemical section", col. 14, I. 17-30) for analysis comprising:

- a. Placing the biological sample on a two-dimensional support (col. 14, l. 17-18 and col. 20, l. 60-62);
- b. Air drying the biological sample (col. 14, l. 17-20 and col. 20, l. 60-62);
- c. Applying protein-precipitating or denaturing first solution L1 to the biological sample on the support (see "PCR buffer containing the missing reagents", col. 21, I. 1-4 and "PCR reagent mixture lacks at least one reagent, such as enzyme", col. 20, I. 65-66) at a first temperature T1 (inherently disclosed) for a first time period Z1 (inherently disclosed);
- d. Applying a protein-precipitating or denaturing solution L2 to the biological sample on the support (see "100% ethanol", col. 21, l. 15-17) at a second temperature T2 for a predetermined second time period Z2 on the support, with

Application/Control Number: 10/686,865 Page 3

Art Unit: 1797

T2 being lower than T1 (inherently disclosed) and Z2 being longer, equal to, or shorter than Z1 (inherently disclosed); and

e. Drying the sample on the support (see "slides are air dried", col. 21, l. 15-16).

Blumenfield further discloses a method wherein said biological sample is a cell or tissue sample (see "histochemical section", col. 14, l. 17-30) (Claim 5), said solution L2 is an organic solvent (see "100% Ethanol", col. 21, l. 15-17) (Claims 6-7), and after performing the method steps defined above, subjecting said biological samples to a nucleic acid determination method (col. 21, l. 21-58) (Claim 10).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. **Claim 4** is rejected under 35 U.S.C. 103(a) as being unpatentable over Blumenfield et al. in view of Cech et al., USPA 2003/0096344 (Cech).

Regarding claim 4, Blumenfield fails to explicitly disclose a method wherein a biological sample is frozen.

Cech teaches that it is desirable to freeze a biological sample for later analysis (¶ 0363).

Application/Control Number: 10/686,865 Page 4

Art Unit: 1797

At the time of invention, it would have been obvious to one skilled in the art to add the freezing step of Cech with the method of Blumenfield in order to preserve or save the biological sample for later use.

8. **Claim 9** is rejected under 35 U.S.C. 103(a) as being unpatentable over Blumenfield et al.

Regarding claim 9, Blumenfield discloses a method wherein T1 is about 80°C (col. 21, I. 1).

While Blumenfield fails to explicitly disclose a method where the temperature is within the claimed range, it would have been obvious to one skilled in the art at the time the invention was made to have T1 fall within the claimed range, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art (MPEP 2144.05, Section II, Part A).

Response to Arguments

- 9. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.
- 10. Applicant's arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. Further, they do not show how the amendments avoid such references or objections.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 1797

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIRK BASS whose telephone number is (571) 270-7370. The examiner can normally be reached on Mon - Fri (9am-4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/ Primary Examiner, Art Unit 1797

/DRB/ Dirk R. Bass